US-PAT-NO: 5309243

DOCUMENT-IDENTIFIER: US 5309243 A

TITLE: Method and apparatus for extending the dynamic range of
                         an electronic imaging system

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Brief Summary Text - BSTX (8):
   To compensate for subject motion while obtaining multiple
images, a two
level optimization embodiment is provided that includes an
image generating
mechanism for generating a plurality of digitized images
including a plurality
of pixels at different exposure levels including at least one
normal exposure
level (N), one level above the normal exposure level (N+1),
one level (N+1/2)
equal to the geometric mean between the normal exposure level
(N) and the level
above the normal exposure level (N+1), one level below the
normal exposure
level (N-1), one level (N-1/2) equal to the geometric mean
between the normal
exposure level (N) and the level below the normal exposure
level (N-1), a
framestore for storing the digitized images produced by the
image unit for
comparing each of the pixels of the digitized image generated
at the normal
exposure level with a preselected normal exposure range to
determine if the
pixel is underexposed or overexposed.

Brief Summary Text - BSTX (9):
   In operation, the electronic data processing unit replaces
the pixel from
the normal exposure level (N) with a corresponding pixel from
the digitized